May Wang

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EDUCATION

Shanghai Jiao Tong University

Sept 2012 - June 2016

B.S. in Electronics and Electric Engineering & Minor in Computer Science IEEE Pilot Class, Overall GPA: 3.64 / 4.3, Rank: 14/78

RESEARCH WORKS

[1] M. Wang, Z. Zhang, X. Tian, X. Wang, "Temporal Correlation of the RSS Improves Accuracy of Fingerprinting Localization", submitted to *Proc. IEEE INFOCOM*, 2016.

[2] Z. Zhang, M. Wang, D. Liu, X. Tian, X. Wang, "Squeeze More from the Fingerprints Reporting Strategy for Indoor Localization", submitted to *Proc. IEEE INFOCOM*, 2016.

RESEARCH EXPERIENCE

Undergraduate member of Research Center of Intelligent Internet of Things (IIoT). Supervised by Prof. Xinbing Wang & Prof. Xiaohua Tian.

How Temporal Correlation of RSS improves the Accuracy of Indoor Localization 3/2015 - present Main Researcher * Indoor localization

- · Modeling a theoretical framework on fundamental limits of localization like accuracy and reliability considering the temporal correlation of signal.
- · Explaining how temporal correlation of signals can correct the localization criteria for MLE method by theoretical derivation and scientific calculation.
- · Dimension Reduction Derivation to analysis the high dimensional situations in Sample space and Physical space.
- · Experimental results corroborate the theoretical analysis.

User-behavior based Optimization Methodology for CloudNFV Network Research group leader * Cellular Network

5/2015 - present

- · Build up the traffic model for substantial mobile stations in communication cellular network.
- · Optimize the resource allocation mechanism in details on network function virtualization framework by linking the user states and EPC nodes.
- · Adaptive and dynamic algorithm design for capacity improvement in this typical framework.

Location Based Services System Development cooperating with Foxconn *iOS development team leader * iOS Indoor Localization System*

7/2015 - present

- · The iOS application developed for indoor localization includes RSS scanning, Map displaying, Pedometer, Information management as well as Sever communication components.
- · The localization determination algorithms both contain online figerprint based method and offline gradient descent method.

Dallas Cooperation Project of Ericsson and IWCT SJTU

7/2014 - 3/2015

Core member * Communication System

- \cdot Renovating the traffic model as state machine for user activities in WCDMA network component.
- · Writing a simulation software by C++ to model the stability distribution of user behavior in 3GPP communication network.
- · Simulating the traffic packages and user activity translation by MATLAB.

Crowdsourcing based Lane-level Vehicular Localization utilizing Smartphones 9/2014 - 1/2015 Member * Intelligent Transportation

- · The system designed as Client/Server model to facilitate the travel programming of the pilotless automobile and high precision vehicle navigation.
- · Leveraging the sensors in smartphone like accelerator and gyroscope as well as GPS module, integrated through IMM filter to find the trajectory of vehicles.
- · Determining number of lanes of the road and classify the location by k-means clustering algorithm.

ACADEMIC PROJECTS & COMPETITIONS

Identification, Analysis and Warning for Large Pedestrian Flow in Urban Areas 6/2015 - present Responsible person * 2015 3rd Chun-Tsung Program of SJTU

- · Creating the dynamic model for large pedestrian flow with consideration of variety of factors and building a network architecture model for urban areas.
- · Warning the peak flow and providing evacuation measures. Forecast the key value to form a mutation by time-domain simulation. On account of the situation of congestion, combine network topology of the road, propose the efficient measures for diverse the flow.
- · Verification the model and algorithms by using Legion pedestrian simulation system in some typical regions.

A Map-Generating and Speed Optimizing Driving System

11/2014 - present

Member * The 7th University Innovative Participate Program in Shanghai

- · In this hackathon party only opened for girl engineers, our group developed an Android app named as "Love Drop", which is a game application for lovers.
- · There are three main functions the love tree cultivation, the beat vent tool game, and a log history for dairy.
- · Finally our group got the first prize in the competition.

"LoveDrop" Android Application

5/12/2014 - 7/12/2014

Member * 2014 Google Girls Hackathon Party

- · In this hackathon party only opened for girl engineers, our group developed an Android app named as "Love Drop", which is a game application for lovers.
- · There are three main functions the love tree cultivation, the beat vent tool game, and a log history for dairy.
- · Finally our group got the first prize in the competition.

AWARDS & SCHOLARSHIPS

Fan Xuji Scholarship (Top 5%)	2013,2014
Pan Wenyuan Scholarship (Top 5%)	2013
• Academic Excellence Scholarship (Type B) of SJTU (Top 10%)	2013,2014
- Excellent Student of SJTU	2013
- Excellent League Member of SJTU	2014
• Third Tsien Hsueshen Cup College Students technological innovation contest	5/2015
• Awarded first prize Google Girls Hackathon Party	12/2014
• Awarded the third prize of the fifth PRO-FACE Man-machine interface programming contest	12/2012

EXTRACURRICULAR ACTIVITY

Student Organizations / Interest Clubs

9/2012 - 9/2014

Director / Secretary

- · Director of Organization Department of Community Committee in SEIEE
- · Member of the student union of SEIEE / Young Volunteer team of SJTU during the freshman year
- $\cdot \ \ \text{Member of College Women Basketball Team} \ / \ \text{Xizhou Guqin Society} \ / \ \text{Student Choir of SJTU} \ / \ \text{English Cornor}$

Volunteering

9/2012 - 9/2015

Team member

· Volunteer in Shanghai Railway Station, Freshman welcoming procedure, Wujing Social Environment-friendly publicity, Shanghai International Marathon, Shanghai Science and Technology Museum. Blood donation.

TECHNICAL STRENGTHS

Computer Languages: C++, Python, JAVA, Erlang, Android, iOS, LabVIEW, Matlab

English Ability: TOEFL 101 (Reading 28, Listening 26, Speaking 23, Writing 24); GRE